Claims

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- 1. Photovoltaic module (1) comprising a plurality of photovoltaic cells (2) arranged between substrates (3, 4) and connected in series by connecting conductors (5), and an external connector pin (13) of the module (1), comprising a block of insulating material (15) fixed to one end of the module (1) so as to connect to an external connector at least one connector (11) electrically connected to the connecting conductor associated with a cell arranged at the end of the module, module characterized in that, the block of insulating material (15) being glued to the end of the module (1), the contact between an internal end of the connector (11) and a free end of the connecting conductor (5) associated with a cell (2b) arranged at the end of the module (1) is achieved by pressure generated by means of a deformation.
- 2. Module according to claim 1, characterized in that the deformation is achieved at the free end of the connecting conductor (5) associated with the cell (2b) arranged at the end of the module (1).
- 3. Module according to claim 1, characterized in that the deformation is achieved atthe internal end of the connector (11).

4. Module according to any one of the claims 1 to 3, characterized in that the connector (11) is made of a material chosen from the group comprising tin-plated copper, stainless steel, titanium, iron-nickel alloys, copper-nickel alloys and beryllium-based alloys.

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5. Module according to any one of the claims 1 to 4, characterized in that the connecting conductor (5) associated with a cell (2b) arranged at the end of the module (1) is made of a material chosen from the group comprising tin-plated copper, stainless steel, titanium, iron-nickel alloys, copper-nickel alloys and beryllium-based alloys.

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6. Module according to any one of the claims 1 to 5, wherein the connector (11) comprises a metal blade having a thickness comprised between 50 and $500\mu m$ and a width comprised between 1 and 100mm.

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7. Module according to any one of the claims 1 to 6, characterized in that it comprises a seal (12) arranged between the two substrates (3, 4) so as to define a tight internal volume, inside the module (1), wherein the cells (2) are arranged, the connector (11) passing tightly through the seal (12).

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8. Module according to claim 7, characterized in that a negative pressure is created inside the tight internal volume.

9. Module according to any one of the claims 1 to 8, characterized in that the external connector is a conducting wire (16) connected in the block of insulating material (15) to the end of the connector (11) entering the block of insulating material (15), the insulating material being a polymer material.

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- 10. Module according to one of the claims 7 and 8, characterized in that the connector (11) is terminated by a female part (17) of a flat connector arranged between the substrates (3, 4) outside the tight volume, the external connector being connected to the connector (11) by a pin forming the male part (18) of the flat connector and terminated by a female part (19) integrated in an opening of the block of insulating material (15).
- 11. Module according to any one of the claims 1 to 8, characterized in that at least one L-shaped connector (11) enters the block of insulating material (15), forming a right angle (20), and comprises an end (11') arranged on the wall of a cylindrical opening (21) of the pin (13) and designed to operate in conjunction with an external connector inserted in the opening.
- 12. Module according to any one of the claims 1 to 8 and 11, characterized in that the block of insulating material (15) comprises two glass substrates (22, 23)

surrounding several conductors (11) separated by glass blades (24), the assembly being bonded by a sealing glass (25).

13. Module according to any one of the claims 1 to 8, characterized in that the connector (11) is terminated, at the external end thereof, by a flexible part (26) coming into contact with a contact zone (27) arranged at the periphery of an opening of the block (15) and designed to be connected to an external connector inserted in the opening.

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